```
                           ===========
                           LEVEL2 data
                                      *
                            (R-2.00)
                           ===========
```

LEVEL2 nt-uple structure:

```
 ****************************************************************
 * Ntuple ID = 22     Entries = 5680      LEVEL2                *
 ****************************************************************
 * Var numb * Type * Packing *    Range     *  Block   *  Name    *
 ****************************************************************
 *      1   * L*4  *    1    *              * EVENT    * GOOD2
 *      2   * I*4  *         *              * EVENT    * NEV2
 *      1   * U*4  *    6    * [0,50]       * CPU      * PKT_TYPE
 *      2   * I*4  *         *              * CPU      * PKT_NUM
 *      3   * I*4  *         *              * CPU      * OBT
 *      4   * U*4  *    6    * [0,50]       * CPU      * WHICH_CALIB
 *      1   * I*4  *         * [0,50]       * TRACKS   * NTRK
 *      2   * U*4  *    6    * [0,50]       * TRACKS   * IMAGE(NTRK)
 *      3   * R*4  *         *              * TRACKS   * XM(6,NTRK)
 *      4   * R*4  *         *              * TRACKS   * YM(6,NTRK)
 *      5   * R*4  *         *              * TRACKS   * ZM(6,NTRK)
 *      6   * R*4  *         *              * TRACKS   * RESX(6,NTRK)
 *      7   * R*4  *         *              * TRACKS   * RESY(6,NTRK)
 *      8   * R*4  *         *              * TRACKS   * AL(5,NTRK)
 *      9   * R*4  *         *              * TRACKS   * COVAL(5,5,NTRK)
 *     10   * R*4  *         *              * TRACKS   * CHI2(NTRK)
 *     11   * U*4  *    1    * [0,1]        * TRACKS   * XGOOD(6,NTRK)
 *     12   * U*4  *    1    * [0,1]        * TRACKS   * YGOOD(6,NTRK)
 *     13   * R*4  *         *              * TRACKS   * XV(6,NTRK)
 *     14   * R*4  *         *              * TRACKS   * YV(6,NTRK)
 *     15   * R*4  *         *              * TRACKS   * ZV(6,NTRK)
 *     16   * R*4  *         *              * TRACKS   * AXV(6,NTRK)
 *     17   * R*4  *         *              * TRACKS   * AYV(6,NTRK)
 *     18   * R*4  *         *              * TRACKS   * DEDXP(6,NTRK)
 *      1   * I*4  *         *              * SINGLETS * NCLSX(6)
 *      2   * I*4  *         *              * SINGLETS * NCLSY(6)
 ****************************************************************
 *  Block   *  Entries  * Unpacked * Packed *   Packing Factor    *
 ****************************************************************
 * EVENT    *  5680     * 8        * 5      *       1.600         *
 * CPU      *  5680     * 16       * 10     *       1.600         *
 * TRACKS   *  5680     * 22004    * Var.   *    Variable         *
 * SINGLETS *  5680     * 48       * 48     *       1.000         *
 * Total    *    ---    * 22076    * Var.   *    Variable         *
 ****************************************************************
 * Blocks = 4            Variables = 26      Max. Columns = 5519  *
 ****************************************************************
```

The EVENT block stores the global event flag GOOD2 and the event counter NEV2.

The CPU block stores the event tag extracted from the physics-packet CPU-header (PKT_TYPE, PKT_NUM, OBT) and a variable that relates each event to the calibration parameters (WHICH_CALIB).
(If WHICH_CALIB=0 (missing calibration) then GOOD2=.FALSE.)

The TRACKS block stores track information:

- NTRK - number of identified tracks (in case the Y ambiguity is not solved both the track images are stored)
- IMAGE(NTRK) - ID of the track image (=0 if no image)
- XM(6,NTRK) - measured coordinates associated to the track
- YM(6,NTRK) - ’
- ZM(6,NTRK) - ’
- RESX(6,NTRK) - spatial resolution associated to each coordinate
- RESY(6,NTRK) - ’
- AL(5,NTRK) - TRACK PARAMETERS: X0,Y0,sin(THETA0),PHI0,DEFLECTION
- COVAL(5,5,NTRK) - Variance/covariance matrix of parameters
- CHI2(NTRK) - reduced chi^2 of the track
- XGOOD(6,NTRK) - flag indicating if a plane was included in the track fitting
- YGOOD(6,NTRK) - ’
- XV(6,NTRK) - calculated coordinates
- YV(6,NTRK) - ’
- ZV(6,NTRK) - ’
- AXV(6,NTRK) - calculated angles
- AYV(6,NTRK) - ’
- DEDXP(6,NTRK) - average energy release

The SINGLETS block stores information about those clusters not associated with any track:

- NCLSX(6) - number of singlets in each plane
- NCLSY(6) - ’